

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF THE CLAIMS

1. (currently amended) A data acquisition system for monitoring of sensor data, comprising:

(a) a primary data acquisition circuit for receiving ~~signals~~data from at least a first sensing device indicative of a parameter associated with one of the following fluids: water, a cleaning solution or a disinfection solution, said primary data acquisition circuit including:

first processing means for processing the data received from said first sensing device, and

(b) a secondary data acquisition circuit for receiving data from at least a second sensing device indicative of said parameter associated with said fluid, wherein said first sensing device and said second sensing device provide data indicative of a condition of the same operating parameter, said secondary data acquisition circuit including:

second processing means for processing the data received from said second sensing device, and

an analog-to-digital conversion means for converting analog data to digital data, said secondary data acquisition circuit electrically connected with said primary data acquisition circuit.

2. (currently amended) A data acquisition system according to claim 1, wherein said parameter associated with said fluid~~operating parameter is one selected from the group consisting of the following: a fluid temperature, a fluid pressure or and a fluid volume.~~

Claim 3 (canceled)

4. (original) A data acquisition system according to claim 1, wherein said first sensing device is a first temperature sensor, and said second sensing device is a second temperature sensor.
5. (original) A data acquisition system according to claim 4, wherein said first and second temperature sensors are resistance temperature detectors.
6. (original) A data acquisition system according to claim 1, wherein said first sensing device is a first pressure sensor, and said second sensing device is a second pressure sensor.
7. (original) A data acquisition system according to claim 6, wherein each said first and second pressure sensors includes a pressure transducer.
8. (original) A data acquisition system according to claim 1, wherein said first sensing device is an air pressure sensor, and said second sensing device is said air pressure sensor.
9. (original) A data acquisition system according to claim 1, wherein said analog-to-digital conversion means receives analog sensor data from said second sensing device, and converts said analog sensor data to digital sensor data.
10. (original) A data acquisition system according to claim 1, wherein said second processing means assembles parallel data associated with said second sensing device, said parallel data received by said primary data acquisition circuit.
11. (original) A data acquisition system according to claim 10, wherein first processing means includes means for comparing said parallel data from said secondary data acquisition circuit to the data received from said first sensing device.
12. (original) A data acquisition system according to claim 11, wherein said primary data acquisition circuit includes a watchdog timer.

13. (currently amended) A data acquisition system for monitoring of sensor data, comprising:

(a) a primary data acquisition circuit for receiving ~~signals~~data from a sensing device indicative of a parameter associated with one of the following fluids: water, a cleaning solution or a disinfection solution, said primary data acquisition circuit including:

first processing means for processing the data received from said sensing device, and

(b) a secondary data acquisition circuit for receiving the data from said sensing device, ~~wherein said sensing device provides data indicative of a condition of an operating parameter~~, said secondary data acquisition circuit including:

second processing means for processing the data received from said sensing device, and

an analog-to-digital conversion means for converting analog data to digital data, said secondary data acquisition circuit electrically connected with said primary data acquisition circuit.

14. (currently amended) A data acquisition system according to claim 13, wherein said ~~operating parameter~~ associated with the fluid is one of the following~~selected from the group consisting of: a fluid temperature, a fluid pressure and/or a fluid volume.~~

Claim 15 (canceled)

16. (original) A data acquisition system according to claim 13, wherein said sensing device is one of the following~~selected from the group consisting of: an air pressure sensor, a fluid pressure sensor and/or a fluid volume sensor.~~

17. (original) A data acquisition system according to claim 16, wherein said fluid pressure sensor is a pressure transducer.

18. (original) A data acquisition system according to claim 16, wherein said air pressure sensor is a pressure transducer.

19. (original) A data acquisition system according to claim 13, wherein said analog-to-digital conversion means receives analog sensor data from said sensing device, and converts said analog sensor data to digital sensor data.

20. (original) A data acquisition system according to claim 13, wherein said second processing means assembles parallel data associated with said sensing device, said parallel data received by said primary data acquisition circuit.

21. (original) A data acquisition system according to claim 20, wherein said first processing means includes means for comparing said parallel data from said secondary data acquisition circuit to the data received from said sensing device.